

REMARKS

This Amendment is in response to the Office Action dated April 6, 2007. Accompanying this Amendment is a Petition to Revive and a payment of Three-Month Extension of Time and the Petition fee.

In the Office Action, claims 18-21 were allowed, claims 1-4, 6, 10, 12, 13, 15, 22-28, and 34 were rejected. Claims 5, 7-9, 11, 14, 16, 17, and 29 were objected to.

With this Amendment, claims 1, 3, 5-8, 10, 11, 13, 22, 28, and 31 are amended. Claims 9, 14-17, 23, 24, and 29 have been canceled. Claims 1-8, 10-13, 18-22, 25-28, and 30-34 are presented for reconsideration and allowance.

In the Office Action, claims 1, 6, 10, 12, 13, 28, and 30 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Duff et al. (2004/0072040). Claims 2-4, 10, 13, 15, 22-27, 28, and 30-34 were rejected under 35 U.S.C. § 103(a) as being unpatentable over Duffy et al. in combination with Routtenberg et al (2004/0205032).

With this Amendment, independent claim 1 has been amended by incorporating a portion of the subject matter of dependent claim 5. In particular, the amendment to claim 1 specifies that the electrolysis unit includes an electrolysis chamber, a cathode, an anode, a pH sensor, a water level sensor, a water fill inlet including a water fill valve, and an electrolyte tank including an electrolyte fill inlet and an electrolyte fill valve. Paragraph 8 of the Office Action, in a statement of reasons for indication of allowable subject matter, indicates that the "prior art of record fails to teach or suggest use of a pH sensor water level sensor in a solar electrolysis power source" that also has a fuel cell.

As amended, claim 1 includes both a pH sensor and a water level sensor. As a result, independent claim 1 is now in condition for allowance.

Dependent claims 3, 6, 7, and 8 have been amended to change dependency from independent claim 1 to dependent claim 2, so that proper antecedent basis is provided for the system controller in dependent claims 4, 7, and 8. Claim 8, which had been objected to, has been amended to clarify that the system controller controls the electrolyte control valve in

response to the pH sensor to add electrolyte to the water within the electrolysis chamber to maintain a pH value between 6 and 7. As a result, the objection to claim 8 has been overcome.

With the amendments to independent claim 1 and dependent claims 3 and 5-8, dependent claims 2-8 are in condition for allowance.

Independent claim 10 has been amended in a manner similar to independent claim 1. As a result of the amendment to claim 10, claim 11 has been amended to remove the subject matter which now is found in independent claim 10. Claim 13 has also been amended to clarify that the source of water is a water tank for holding water. Claims 14-17 have been canceled. As a result of the amendments to claims 10, 11, and 13, claims 10-13 are now in condition for allowance.

Independent claim 22 has been amended to incorporate the same subject matter added to independent claims 1 and 10. In addition, claim 22 has been amended to remove reference to the hermetically sealed compressor. As amended, claim 22 is now in condition for allowance. In addition, dependent claims 25-27, which depend from claim 22 are in condition for allowance as well.

Claim 28 has been amended to incorporate the subject matter of claim 29, which was objected to but was not rejected based upon prior art. As amended, claim 28 now requires maintaining a pH value of the water in the electrolysis unit between 6 and 7. As a result, independent claim 28 and dependent claim 30 are now in condition for allowance. Claim 29 has been canceled in view of the amendment to claim 28.

Independent claim 31 is another method claim for generating power utilizing electrolysis of water and solar energy. Claim 31 has also been amended to require maintaining a pH value of the water in the electrolysis unit between 6 and 7. Independent claim 31, as amended, and dependent claims 32-34 are now in condition for allowance.

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In conclusion, this Amendment has addressed all of the rejections and objections, and has placed claims 1-8, 10-13, 18-22, 25-28, and 30-34 in condition for allowance. Notice to that effect is requested.

Respectfully submitted,

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